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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/124,805	07/29/1998	OHN O. LAMPING	D/98205Q1	7115	
22470	22470 7590 01/13/2004			EXAMINER	
HAYNES BEFFEL & WOLFELD LLP			HAVAN, THU THAO		
P O BOX 366 HALF MOON BAY, CA 94019					
			ART UNIT	PAPER NUMBER	
			2672	_	
			DATE MAILED: 01/13/2004	33	

Please find below and/or attached an Office communication concerning this application or proceeding.

-4.	Application No.	Applicant(s)			
	09/124,805	LAMPING ET AL.			
Office Action Summary	Examiner	Art Unit			
	Thu-Thao Havan	2672			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on 24 O	<u>ctober 2003</u> .				
2a) ☐ This action is FINAL . 2b) ☑ This	s action is non-final.				
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	•				
4) Claim(s) 17-44 is/are pending in the application	١.				
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>17-44</u> is/are rejected.	Claim(s) <u>17-44</u> is/are rejected.				
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. §§ 119 and 120					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents	s have been received.				
Certified copies of the priority documents Copies of the certified copies of the prioring application from the International Bureau * See the attached detailed Office action for a list. * See the attached detailed Office action for a list.	ity documents have been receive ı (PCT Rule 17.2(a)).	ed in this National Stage			
* See the attached detailed Office action for a list of 13) Acknowledgment is made of a claim for domestic since a specific reference was included in the first 37 CFR 1.78.	c priority under 35 U.S.C. § 119(e) (to a provisional application)			
 a)	c priority under 35 U.S.C. §§ 120	and/or 121 since a specific			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) latent Application (PTO-152)			



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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims **17-44** are rejected under 35 U.S.C. 102(b) as being anticipated by Lamping et al. (US Patent No. 5,619,632).

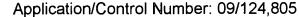
Re claim 17, Lamping teaches A.) a method of laying out a node-link structure in space with negative curvature (col. 16, lines 45-63; col. 25, lines 52-62; fig. 17). In the specification of the application, page 11 and lines 3-7, the inventors claim the negative curvature as a space in which parallel lines diverge...there are multiple other straight lines parallel to the given straight line. An example of a space with negative curvature is hyperbolic n-space. Therefore, Lamping teaches a negative curvature when he discloses representation includes link features that are lines representing links between nodes in a node-link structure and node features, some of which are rectangles with characters in them but others of which are intersections or ends lines as in figures 14-16. Particularly, figure 17 discloses negative curvature when there are parallel lines of parents and children nodes that diverge into many other nodes; B.) obtaining nearby relationship data for an element in the structure, the nearby relationship data indicating information about nearby node-link relationships, the nearby relationship data excluding

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relationships with at least one element of the node-link structure (col. 17, line 20 to col. 18, line 50; figs. 6-7). In other words, Lamping teaches a transformed position for each node in the node-link structure including those that are treated as too near the edge. He discloses obtains layout data indicating a position in a layout space for each node in a node-link structure. The layout space can, for example, be a hyperbolic plane. He teaches initializing a current transformation that can be performed on the layout data to obtain transformed positions. The initial current transformation could, for example, be a null transformation that does not change the positions of the nodes in the layout space. His system then performs the current transformation on the layout data to obtain transformed data indicating transformed positions for each node; and C.) based on only the nearby relationship data, and not on the position of any other element in the structure, obtaining layout data indicating the element's position relative to a parent in the space with negative curvature (col. 21, line 11 to col. 25, line 23; col. 16, lines 45-63; col. 32, lines 19-35; col. 25, lines 52-62; col. 4, lines 44-50; fig. 5-7 and 17). Lamping teaches the step of the lower level node features that share a parent node feature having centers of area positioned in order approximately along an arc with sufficiently similar spacing from the center of area of the parent node feature corresponds to the step of obtaining layout data indicating the element's position relative to a parent in the space. The area of positioning the nodes indicates the element's position. In addition, the lower level nodes having a parent node correspond to obtaining the nearby relationship. In data structure, the parent and the child nodes (lower level nodes) are the nearest relationships between nodes. As for obtaining



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layout data based on the nearby relationship, Lamping teaches a node-link structure to obtain layout data. He teaches the layout of the data when he indicates the position of the nodes in a data structure.

Re claims **18-20 and 41**, Lamping discloses the space with negative curvature is a hyperbolic space (col.17, lines 28-44, col. 16, lines 53-62; col. 20, lines 20-52). Lamping teaches a negative curvature as a hyperbolic space when he discloses the layout space is a hyperbolic plane.

Re claims 21-23, 30-32, and 35, Lamping discloses the radii and angles for the set of children to obtain a position displacement and an angle displacement between the parent and the element (col. 23 and 24; fig. 13).

Re claims **24, 33-34, and 36**, Lamping discloses the nearby node-link relationships include only relationships among the parent and the parent's children and grandchildren (<u>col. 25</u>, <u>lines 24-50</u>; <u>fig. 13</u>).

Re claims **25** and **37-40**, Lamping discloses the method is performed in each of a series of iterations (col. 19, lines 61-67; col. 20 and 21; fig. 12).

Re claims **26-27**, the limitations of claims 26-27 are analyzed as discussed with respect to claim 17 above.

Re claims **29 and 42-44**, the limitations of claims 29 and 42-44 are identical to claim 17 above except for calculating element's position in the space with negative curvature and storing the positions for each element... (col. 23, line 56 to col. 24, line 65; col. 16, lines 25-62; figs. 13-21). Therefore, claims 29 and 42-44 are treated the same as discussed with respect to claim 17 above. Lamping teaches implementing by



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calculating a radial gap for the position of each node, then comparing it with a limit to determine whether it is a position too close to the unit disk's perimeter. In preparation for a recursive call to DoNode, the system begins each iteration by setting the previous node feature's position to the position and by setting the previous position's radial gap to the radial gap calculated. These values are set locally within the iteration. Then, the system makes a call to DoNode for the next child with the child's handle and with the parent's position. On a further note, the system can access instruction data stored in memory and transfer the instruction data over network to processor so that processor can receive instruction data from network. Instruction data can then be stored in memory or elsewhere by processor, and can be executed.

Inquiries

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu-Thao Havan whose telephone number is (703) 308-7062. The examiner can normally be reached on Monday to Thursday from 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on (703) 305-4713.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

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Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

TTH Art Unit 2672 December 29, 2003

> MICHAEL RAZAVI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600